

1 In the Drawings:

2
3 In Fig. 3, box 31, please delete the label "D/A CONVERTER"
4 and replace this with the label A/D CONVERTER.

5
6 In the Claims:

7
8 Claim 1. (CANCELLED)

9 Claim 2. (CANCELLED)

10 Claim 3. (CANCELLED)

11 Claim 4. (CANCELLED)

12 Claim 5. (CANCELLED)

13
14 Please amend Claim 6 as follows.

15
16 6. (Currently Amended) A digital radio system, comprising:
17 a transmitter unit, the transmitter unit including a
18 transmitter programmable processor, wherein a signal stream
19 transmitted by the transmitter unit is encoded with an
20 encoding algorithm installed in the transmitter
21 programmable processor; and
22 at least one receiver unit, the receiver unit
23 including:
24 apparatus for receiving the signal stream
25 transmitted by the transmitter unit and converting the
26 signal stream into a digital format signal stream;
27 identification apparatus, the identification
28 apparatus determining when an updated decoding algorithm

1 decoding the digital format signal stream is installed in
2 the receiver unit; ~~the transmitter unit requesting the~~
3 ~~updated decoding algorithm when the updated decoding~~
4 ~~algorithm is not installed in the receiver unit; and~~
5 a receiver programmable processor for decoding
6 the digital format signal stream using a the updated
7 decoding algorithm installed in the receiver programmable
8 processor, the receiving unit requesting the updated
9 decoding algorithm when the updated decoding algorithm is
10 not installed in the receiving unit.

11
12 7. (**Previously Amended**) The digital radio system as
13 recited in claim 6 wherein the updated decoding algorithm
14 is broadcast in a broadcast transmission control channel to
15 update the receiver unit.

16
17 8. (**As Filed**) The digital radio system as recited in
18 claim 6 wherein a dual transmission mode is used to update
19 the receiver unit.

20
21 9. (**Previously Amended**) The digital radio system as
22 recited in claim 8 wherein the dual transmission mode
23 includes transmission of an old transmission format and the
24 updated transmission format simultaneously.

25
26 **Claim 10. (CANCELLED)**

27
28 11. (**Previously Amended**) A method for altering an encoding
29 and a decoding algorithm in a digital radio system, the

1 digital radio system including a transmitter and at least
2 one receiver unit, the method comprising:
3 installing an updated encoding algorithm in a
4 programmable processor of the transmitter unit;
5 providing an updated decoding algorithm for a
6 programmable processor of the receiver unit, wherein the
7 providing step includes the steps of;
8 transmitting the updated decoding algorithm by
9 the transmitter unit to the receiver unit,
10 converting the transmitted updated decoding
11 algorithm to a digital signal format; and
12 applying the converted updated decoding algorithm
13 to the receiver programmable processor, wherein the
14 receiver programmable processor installs the decoding
15 algorithm for decoding of transmitted encoded signal
16 streams by the transmitter unit.

17
18 **Claim 12. (CANCELLED)**

19
20 **Claim 13. (CANCELLED)**

21
22
23 14. **(Previously Amended)** The method as recited in
24 claim 11 wherein the encoding and decoding algorithms refer
25 to algorithms for encoding and decoding a transmission
26 signal stream format.

1 **Claim 15. (CANCELLED)**

3 **Claim 16. (CANCELLED)**

5 **Claim 17. (CANCELLED)**

8 18. (**Previously Amended**) A digital radio receiver unit
9 responsive to a signal stream from a transmitting unit, the
10 receiver unit comprising:

11 an antenna for receiving a signal stream from the
12 transmitting unit;

13 a receiver circuit for converting the signal stream to
14 a digital signal stream;

15 a programmable processor for processing the digital
16 signal format stream, the programmable processor including
17 a decoding algorithm for decoding the digital format signal
18 stream, wherein when the digital format signal stream
19 requires a different decoding algorithm for decoding, the
20 programmable processor installs a new decoding algorithm
21 therein; and

22 an output device wherein, when the programmable
23 processor determines that the an updated new decoding
24 algorithm needed to decode the digital signal stream is not
25 installed therein, the user is alerted by signals applied
26 to the output device providing status signals indicating
27 that the updated decoding algorithm is not present, the
28 user obtaining the new status signals causing the updated
29 decoding algorithm and installing the new decoding
30 algorithm to be installed in the programmable processor.

1 **Claim 19. (CANCELLED)**

3 **Claim 20. (CANCELLED)**

5 **Claim 21. (CANCELLED)**

7 **Claim 22. (CANCELLED)**

10 **23. (Previously Amended)** The receiver unit as recited in
11 claim 18 wherein the decoding algorithm is an algorithm for
12 decoding a transmission transmitted signal format.

14 **Claim 24. (CANCELLED)**

16 **Please amend Claim 25 as follows.**

18 **25. (Currently Amended)** A transmitter unit for use in a
19 digital radio system, the digital radio system including at
20 least one receiver unit having a programmable processor,
21 the transmitter unit comprising:

22 an A/D converter responsive to analog input signals,
23 the A/D converter providing a digital representation of the
24 analog input signals;

25 a format encoding unit coupled to the A/D__converter,
26 the format encoding unit controlling the encoding a
27 transmission format of a broadcast transmission according
28 to a transmission format encoding algorithm, wherein the
29 transmission format encoding algorithm is updated; and

1 an up-converter and power amplifier unit for
2 processing signals from the format encoding unit in an
3 updated transmission format; and
4 an antenna for broadcasting signals from the up-
5 converter and power amplifier unit,
6 wherein the broadcasting signals can include updating
7 signals, the updating signals permitting the programmable
8 processor to be decode the transmission format updated
9 signals.

10
11 26. **(As Filed)** The transmitter unit as recited in
12 claim 25 wherein the transmitter unit broadcasts decoding
13 algorithms and transmission format algorithms to receiver
14 units of the digital radio system.

15
16 27. **(As Filed)** The digital radio system as recited in
17 Claim 6 wherein the updated decoding algorithm is provided
18 by one provider selected from the group consisting of the
19 manufacturer of the receiver unit and the transmitter unit.